

MSDS - Material Safety Data Sheet

Section 1.	Product and Company Identification
Supplier	CovaChem, LLC. 6260 East Riverside Blvd, STE 119 Loves Park, IL 61111 Phone: +1.815.315.1271 x3 Fax: +1.815.315.1272
Emergency Phone #:	+1.815.714.8421
Product Number	13409-100, 13409-1, 13409-custom
Product Name	SMCC Crosslinker
Section 2.	Composition / Information on Ingredients
OSHA Hazards	Irritant
GHS Classification	Eye Irritant (Category 2A) Skin Irritant (Category 2) Specific target organ toxicity - single exposure (category 3)
HMIS Classification	Health Hazard 2 Flammability 0 Physical Hazard 0
NFPA Rating	Health Hazard 2 Flammability 0 Physical Hazard 0
Potential Health Effects	Inhalation May be harmful if inhaled. May cause respiratory irritation. Skin May be harmful if absorbed through the skin. Eyes May cause irritation to the eyes. Ingestion May be harmful if ingested.
Section 3.	Hazards Identification
Synonyms	SMCC, N-Succinimidyl 4-(maleimidomethyl)cyclohexanecarboxylate, 4-(N-Maleimidomethyl)cyclohexanecarboxylic acid N-hydroxysuccinimide ester
CAS#:	64987-85-5
Molecular Weight	334.32
Formula	C16H18N2O6 Component: N-Succinimidyl 4-(maleimidomethyl)cyclohexanecarboxylate (CAS# 64987-85-5)
Section 4.	First Aid Measures
If Inhaled	Move to fresh air. Give artificial respiration if breathing has ceased.
In case of Skin Contact	Wash with soap and water.
In Case of Eye Contact	Flush with plenty of water. Seek medical attention.
If Swallowed	Rinse mouth with water and seek medical attention.
Section 5.	Fire-Fighting Measures
Suitable Extinguishing Media	Water, dry chemical, alcohol resistant foam are all suitable.
Protective Equipment	If needed, wear self contained breathing apparatus.
Hazardous Combustion Products	Carbon oxides and Nitrogen oxides may form upon combustion
Section 6.	Accidental Release Measures
Personal Precautions	Avoid breathing dust or vapors.
Environmental precautions	Prevent environmental release.
Containment and Cleanup	Keep in closed container. Dispose of any spillage without creating dust.
Section 7.	Handling and Storage
Conditions for Safe Storage	Store container (4 °C) in a well ventilated, dry location.
Precautions regarding safe handling	Provide adequate ventilation and standard fire prevention measures.
Section 8.	Exposure Controls / Personal Protection
Does not contain any substance with occupational exposure limit values.	
Respiratory Protection	Use of a dust respirator is recommended (ie. type N95)
Hand Protection	Handle with nitrile rubber gloves.
Eye Protection	Wear safety glasses, including side-shields.
Skin Protection	Wear protective clothing that is impassable to spillage.
Section 9.	Physical and Chemical Properties
Form	white solid
Melting Point	180 - 182 °C
Boiling Point	unavailable
Flash Point	unavailable
Ignition Temperature	unavailable
Autoignition Temperature	unavailable
Density	unavailable
Water Solubility	unavailable
Partition Coeff: n-octanol/water	unavailable

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Section 10.	Stability and Reactivity
Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	unavailable
Conditions to Avoid	Do not expose to moisture
Materials to Avoid	Strong Oxidizers
Hazardous decomposition products	Nitrous oxides and carbon oxides.
Section 11.	Toxicology
Oral LD50	data unavailable
Inhalation LC50	data unavailable
Dermal LD50	data unavailable
Skin corrosion / irritation	data unavailable
Eye Damage or Irritation	data unavailable
Skin and Respiratory Sensitization	data unavailable
Germ Cell Mutagenicity	data unavailable
Carcinogenicity	
IARC	No component present at greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component present at greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by ACGIH.
NTP	No component present at greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by NTP.
OSHA	No component present at greater than 0.1% is identified as a probable, possible or confirmed human carcinogen by OSHA.
Reproductive Toxicity	data unavailable
Teratogenicity	data unavailable
Aspiration Hazard	data unavailable
Potential Health Effects	
Inhalation	May be harmful if inhaled.
Ingestion	May cause harm if swallowed.
Skin	May cause harm if absorbed through skin.
Eyes	May cause eye irritation.
Section 12.	Ecological Information
Toxicology	data unavailable
Persistence and degradability	data unavailable
Bioaccumulative potential	data unavailable
Mobility in soil	data unavailable
PBT and vPvB assessment	data unavailable
Other Adverse effects	data unavailable
Section 13.	Disposal Consideration
Disposal Considerations	be recycled when possible. Please dispose any unused or used materials in accordance with applicable national, regional and local laws and regulations.
Section 14.	Transportation Information
DOT (USA)	Not classified as dangerous goods
IMDG	Not classified as dangerous goods
IATA	Not classified as dangerous goods
Section 15.	Regulatory Information
OSHA Hazards	None known
SARA 302 Components	No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.
SARA 311/312	No SARA Hazards
Californian Prop. 65 Components	This material does not contain any chemicals known to the State of California to cause reproductive harm or birth defects.
Right to Know Components	N-Succinimidyl-4-(maleimidomethyl)cyclohexanecarboxylate (CAS# 64987-85-5)
Section 16.	Other Information
Other Information	The information represented in this MSDS is believed to be correct and is based on the current state of our knowledge. This document or any other document does not represent or suggest any type of warranty or guarantee of the product properties or characteristics of this material. CovaChem, LLC and its affiliates shall not be held liable for any damages that result from contact